

10 said document;

a document delivery condition database that stores a document delivery condition that is a range condition under which said document is delivered in a range and is one of range conditions that include a distance, a route, time, and a fare from a place inputted from said

15 terminal with said document ID;

a map and user retrieving means that obtains said registering delivery place from said document registering place index, and also obtains said document delivery condition of said document corresponding to said document ID from said document delivering condition database,

20 and decides a range where said document is delivered from said registering delivery place and document delivery condition, and retrieves a map database that has facility names and road information connecting and relating to said facility names with coordinate information on a map, and said user position memorizing means, under said range condition, and obtains a list of user IDs of users who have registered within a range
25 that matches with said range condition, and outputs said list of said user IDs with said document ID;

a document database retrieving means that receives said list of said user IDs with said document ID from said map and user retrieving
30 means, and retrieves a document to be delivered to said users in said list of said user IDs from a document database that has documents by using said document ID;

a document informing means that receives said document from said document database retrieving means and informs said users in said
35 list of said user IDs about said document;

an informing user managing means that manages said document ID of said document, which is informed to said users from said document informing means, and said user IDs, and informs a document deleting means about said document ID so that said document deleting

said document deleting means that receives said document ID of said document whose delivered number of users exceeded said designated number (an upper limit), and deletes said document delivery condition and said document registering place index corresponding to said received document ID from document delivery condition database and said document registering place index.

a user managing means that manages user IDs and identifies a user and attaches the user ID of said user to place information of a virtual or actual place of a user obtained from a first terminal at real
5 time;

10 a document registering place index that stores a registering
delivery place of a document registered from a document registering
means of a second terminal with a document ID of said document;

a map and user retrieving means that obtains said registering delivery place from said document registering place index, and also obtains said document delivery condition of said document corresponding to said document ID from said document delivering condition database,

and decides a range where said document is delivered from said registering delivery place and document delivery condition, and retrieves a map database that has facility names and road information connecting and relating to said facility names with coordinate information on a map, and said position memorizing means, under said range condition, and obtains a list of user IDs of users who have registered within a range that matches with said range condition, and outputs said list of said user IDs with said document ID;

a document database retrieving means that receives said list of said user IDs with said document ID from said map and user retrieving means, and retrieves a document to be delivered to said users in said list of said user IDs from a document database that has documents by using said document ID;

a document informing means that receives said document from said document database retrieving means and informs said users in said list of said user IDs about said document;

an informing user managing means that manages said document ID of said document, which is informed to said users from said document informing means, and said user IDs, and informs a document deleting means about said document ID so that said document deleting means deletes said document of said document ID when the number of users whom said document was delivered exceeded a number designated by said document registering means; and

said document deleting means that receives said document ID of said document whose delivered number of users exceeded said designated number (an upper limit), and deletes said document delivery condition and said document registering place index corresponding to said received document ID from document delivery condition database and said document registering place index.

30 an informing user managing means that manages said

document ID of said document that is informed to said users and said user IDs of users whom said document is delivered, and does not instruct to deliver said document when the number of users whom said document was delivered exceeded a number designated by said document registering means.

42. An information delivery server, comprising:

a user managing means that manages user IDs and identifies a user and attaches the user ID of said user to place information of a virtual or actual place of said user obtained from a first terminal at real time;

a user position memorizing means that receives said place information and said user ID of said user from said user managing means and memorizes them;

a document registering place index that stores a registering delivery place of a document registered from a document registering means of a second terminal with a document ID of said document;

a document delivery condition database that stores a document delivery condition that is a range condition under which said document is delivered in a range and is one of range conditions that include a distance, a route, time, and a fare from a place inputted from said second terminal with said document ID;

a map and user retrieving means that obtains said registering delivery place from said document registering place index, and also obtains said document delivery condition of said document corresponding to said document ID from said document delivering condition database, and decides a range where said document is delivered from said registering delivery place and document delivery condition, and retrieves a map database that has facility names and road information connecting and relating to said facility names with coordinate information on a map,

25 and said user position memorizing means, under said range condition,
and obtains a list of user IDs of users who have registered within a range
that matches with said range condition, and outputs said list of said user
IDs with said document ID;

a document database retrieving means that receives said list of
30 said user IDs with said document ID from said map and user retrieving
means, and retrieves a document to be delivered to said users in said list
of said user IDs from a document database that has documents by using
said document ID;

an informing user managing means that manages said document ID of said document that is informed to said users and said user IDs of users whom said document is delivered, and does not instruct to deliver said document when the number of users whom said document was delivered exceeded a number designated by said document registering means; and

40 a document informing means that informs said users in said
list of said user IDs about said document by an instruction from said
informing user managing means.

43. A client, comprising:

a place condition obtaining means that obtains place information of a virtual or actual place of a user at real time;

a receiving means that receives a document from an information delivery server, by making said information deliver server register a document to be delivered to said user by attaching a document registering place index and a document delivery condition, and store said place information that is renewed from said place obtaining means at real time, and extract at least one of facility names and place names from a map database that has facility names and road information connecting and relating to said facility names with coordinate information on a map,

15
20

a displaying means that receives said document and displays
ment.

44. A client, comprising:

a place condition obtaining means that obtains place on of a virtual or actual place of a user at real time;

5
10
15

number of said document did not exceed said upper limit; and

a displaying means that receives said document and displays said document.

45. A client being an information supplier, comprising:

an inputting means from which an information supplier inputs a document that is delivered to users in an information delivery server; wherein:

said information supplier further inputs a registering delivery place where said document is delivered and a document delivery condition under which said document is delivered to said information delivery server from said inputting means, and makes said information delivery server deliver said document to said users under conditions of said registering delivery place and said document delivery condition.

46. A client being an information supplier, comprising:

an inputting means from which an information supplier inputs a document that is delivered to users in an information delivery server; wherein:

said information supplier further inputs a registering delivery place where said document is delivered and a document delivery condition under which said document is delivered to said information delivery server from said inputting means, and makes said information delivery server deliver said document to said users under conditions of said registering delivery place and said document delivery condition, and further inputs an upper limit of delivering number of said document as a document delivery condition to said information delivery server from said inputting means, and when the delivered number of said document exceeded said upper limit, makes said information delivery server stop delivering said document and delete said registering delivery place and

said document delivery condition of said document, and when the delivered number of said document did not exceed said upper limit, makes said information delivery server deliver said document.

47. A client being an information supplier, comprising:

an inputting means from which an information supplier inputs a document that is delivered to users in an information delivery server; wherein:

5 said information supplier further inputs a registering delivery place where said document is delivered and a document delivery condition under which said document is delivered to said information delivery server from said inputting means, and makes said information delivery server deliver said document to said users under conditions of
10 said registering delivery place and said document delivery condition, and further inputs an upper limit of delivering number of said document as a document delivery condition to said information delivery server from said inputting means, and when the delivered number of said document exceeded said upper limit, makes said information delivery server stop
15 delivering said document, and when the delivered number of said document did not exceed said upper limit, makes said information delivery server continue to deliver said document.

48. An information delivery method, comprising the steps of:
registering a document that a second client wants to deliver to users in a document database;

5 registering a registering delivery place where said document is delivered in a document registering place index from said second client, and storing them with a document ID;

 registering a document deliver condition under which said document is delivered to users in a document delivery condition database

00587919-11501

stopping delivering said document and deleting said document
delivery condition and said registering delivery place from respective
said document delivery condition database and said document registering

40 upper limit; and

continuing delivering said document when the delivered number of said document did not exceed said upper limit.

49. An information delivery method, comprising the steps of:
registering a document that a second client wants to deliver to
users in a document database;

5 delivered in a document registering place index from said second client,
and storing them with a document ID;

registering a document deliver condition under which said document is delivered to users in a document delivery condition database from said second client, and storing them with said document ID;

10 judging whether said document has an upper limit of
 delivering number as one of said document delivery condition or not;

informing said upper limit of delivering number of said document and said document ID, when said upper limit of delivering number exists;

15 attaching a user ID to the present position of user and
 memorizing said present position of said user;

informing the present position of said user when said present position of said user is renewed;

obtaining said document delivery condition every document ID
20 from said document delivery condition database;

obtaining said registering delivery place every document ID
from said document registering place index;

obtaining a list of user IDs of users under conditions of the present position of users, said registering delivery place, and said document delivery condition;

30

35

5

10

15

receiving the present position of said first client from said first

receiving said present position of said first client every time when said present position of said first client was renewed by said server;

obtaining a document that matches with said present position of said first client, said registering delivery place, and said document delivery condition, from said document database by said server;

counting the number of users being said first client whom said document was delivered by said server;

continuing delivering said document to said users being said first client when said counted number did not reach said upper limit of delivering number by said server.

registering a registering delivery place where said document is delivered and a document delivery condition under which said document is delivered to said first client in a server from said second client;

attaching a document ID to said registering delivery place and said document delivery condition by said server;

30 judging whether said counted number of user IDs reached said
upper limit of delivering number at said sever;

stopping delivering said document to said users being said first client when said recorded number reached said upper limit of delivering number by said server; and

35 continuing delivering said document to said users being said first client when said recorded number did not reach said upper limit of delivering number by said server.

53. A storing medium stored programs to make a server execute information delivery, wherein:

said programs, comprising the steps of:

memorizing place information of a virtual or actual place of
5 each of users with each user ID in a user position memorizing means;

storing a registering delivery place, where a document is delivered, of said document inputted from a terminal, with a document ID in a document registering delivery place index;

storing a document delivery condition, which is a range
10 condition, within said range said document is delivered, and is at least
one of a distance, a route, time, a fare from a place where said terminal
inputted, with said document ID in a document delivery condition
database;

obtaining said registering delivery place with said document
15 ID from said document registering delivery place index and also said
document delivery condition with said document ID from said document
delivery condition database;

retrieving a map database that has facility names and roads
connecting and relating to said facility names with coordinate
20 information on a map and said place information of said users
memorizing in said user position memorizing means, under conditions of

obtaining a list of user IDs of said users within a geographic range that match with said place information of said users, said registering delivery place, and said document delivery condition, and sending said obtained list of said user IDs with said document ID to a document database retrieving means;

informing said users in said list of said user IDs about said retrieved document at said document informing means;

deleting said registering delivery place and said document
40 delivery condition of said document ID of said document whose delivered
number exceeded said upper limit.

said programs, comprising the steps of:

storing a registering delivery place, where a document is delivered, of said document inputted from a terminal, with a document ID in a document registering delivery place index;

storing a document delivery condition, which is a range

10 condition, within said range said document is delivered, and is at least one of a distance, a route, time, a fare from a place where said terminal inputted, with said document ID in a document delivery condition database;

obtaining said registering delivery place with said document
15 ID from said document registering delivery place index and also said document delivery condition with said document ID from said document delivery condition database;

retrieving a map database that has facility names and roads
connecting and relating to said facility names with coordinate
20 information on a map and said place information of said users memorizing in said user position memorizing means, under conditions of said obtained registering delivery place and said document delivery condition;

obtaining a list of user IDs of said users within a geographic
25 range that match with said place information of said users, said registering delivery place, and said document delivery condition, and sending said obtained list of said user IDs with said document ID to a document database retrieving means;

retrieving a document that matches with said document ID
30 from a document database that has documents to be delivered to said users at said document database retrieving means, and sending said document to a document informing means with said list of said user IDs;

informing said users in said list of said user IDs about said
retrieved document at said document informing means; and

35 stopping delivering said document to said users when the delivered number of said document exceeded a predetermined upper limit at an informing user managing means that manages said user IDs and said document IDs.

00007019-111601

55. A storing medium stored programs to make a client execute information inputting and information receiving, wherein:

said programs, comprising the steps of:

obtaining place information of a virtual or actual place of each
5 of users at real time at said client;

making an information delivery server register a document that is delivered to said users with a registering delivery place where said document is delivered and a document delivery condition under which said document is delivered;

10 making said information delivery server memorize said place information that is renewed at real time from said place obtaining means;

making said information delivery server retrieve at least one of facility names and place names from a map database that has facility
15 names and roads connecting and relating to said facility names with coordinate information on a map by using said registering delivery place and said document delivery condition;

making said information delivery server retrieve a document to be delivered to said users from a document database that has documents
20 by making said facility names or said place names as keywords, and confirm whether said document has an upper limit of delivering number or not;

making said information delivery server send said retrieved document to said client;

25 receiving said document at said client;

displaying said document at said client; and

making said information delivery server stop informing said client about said document when the delivered number exceeded said upper limit, and delete said document and said registering delivery place
30 and said document delivery condition.

5

obtaining place information of a virtual or actual place of each

10

making said information delivery server memorize said place information that is renewed at real time from said place obtaining means;

15

20

25

displaying said document at said client; and

making said information delivery server stop informing said client about said document when the delivered number exceeded said upper limit.

57. A storing medium stored programs to make a client being an information supplier execute information registering and information delivering, wherein:

said programs, comprising the steps of:

5 registering a document that is delivered to users in an information delivery server;

registering a registering delivery place where said document is delivered and a document delivery condition under which said document is delivered in said information delivery server;

10 registering an upper limit of delivering number of said document in said information delivery server, if necessary;

making said information delivery server deliver said document to said users under conditions of said registering delivery place and said document delivery condition; and

15 making said information delivery server stop delivering said document to said users when the delivered number of said document exceeded said upper limit, delete said document, said registering delivery place, and said document delivery condition.

58. A storing medium stored programs to make a client being an information supplier execute information registering and information delivering, wherein:

said programs, comprising the steps of:

5 registering a document that is delivered to users in an information delivery server;

registering a registering delivery place where said document is delivered and a document delivery condition under which said document is delivered in said information delivery server;

10 registering an upper limit of delivering number of said

05987919-44504

document in said information delivery server, if necessary;

making said information delivery server deliver said document to said users under conditions of said registering delivery place and said document delivery condition; and

- 15 making said information delivery server stop delivering said document to said users when the delivered number of said document exceeded said upper limit.

09587919-111501